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Selden et al.

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(54) **NUCLEIC ACID PURIFICATION**

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(58) **Field of Classification Search**

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See application file for complete search history.

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ABSTRACT

A self-contained apparatus for isolating nucleic acid, cell lysates and cell suspensions from unprocessed samples apparatus, to be used with an instrument, includes at least one input, and: (i) a macrofluidic component, including a chamber for receiving an unprocessed sample from a collection device and at least one filled liquid purification reagent storage reservoir; and (ii) a microfluidic component in communication with the macrofluidic component through at least one microfluidic element, the microfluidic component further comprising at least one nucleic acid purification matrix; and (iii) at least one interface port to a drive mechanism on the instrument for driving said liquid purification reagent, through the microfluidic element and the nucleic acid purification matrix, wherein the only inputs to the apparatus are through the chamber and the interface port to the drive mechanism.

9 Claims, 16 Drawing Sheets

